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NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

Vol. 18, No. 53

For Week Ending January 3, 1970

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE / HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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EPIDEMIOLOGIC NOTES AND REPORTS
TYPE B BOTULISM – Denver, Colorado

On Dec. 19, 1969, a 41-year-old man had onset of dysphagia, followed several hours later by diplopia and dysarthria. He was hospitalized on the following day because of progression of these symptoms. On admission, he was afebrile. Physical findings included diplopia and ptosis of eyelids, palatal paralysis with absent gag reflex, respiratory insufficiency, and upper extremity skeletal muscle weakness. The patient was alert and oriented with no sensory deficits. His past history included atherosclerotic cardiovascular disease with angina pectoris. He was tracheostomized and given supportive care.

A history of ingestion of home-preserved chili peppers and their juice was elicited; the most recent exposure was 20 hours prior to onset of symptoms. The diagnosis of botulism was made, and the patient was treated with bivalent AB botulinum antiserum on December 20.

The patient's condition after initially stabilizing, deteriorated, and on December 24, he developed marked

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TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	53rd WEEK ENDED		MEDIAN	CUMULATIVE, FIRST		
	January 3, 1970	December 28, 1968	1964 - 1968	53 Weeks 1969	52 Weeks 1968	MEDIAN 1964 - 1968
Aseptic meningitis	35	80	29	3,519	4,374	2,940
Brucellosis	1	7	8	231	232	252
Diphtheria	1	20	10	214	260	214
Encephalitis, primary:						
Arthropod-borne & unspecified	14	23	23	1,334	1,455	1,880
Encephalitis, post-infectious	2	7	10	316	465	713
Hepatitis, serum	53	105	715	5,412	4,715	37,652
Hepatitis, infectious	643	685		48,756	45,578	
Malaria	48	55	50	3,264	2,370	559
Measles (rubeola)	627	257	1,232	25,271	22,617	203,010
Meningococcal infections, total	43	25	53	2,966	2,521	2,813
Civilian	40	25	- - -	2,705	2,306	- - -
Military	3	–	- - -	261	215	- - -
Mumps	1,124	1,649	- - -	89,499	148,804	- - -
Poliomyelitis, total	–	2	3	17	59	67
Paralytic	–	2	3	16	59	59
Rubella (German measles)	318	281	- - -	55,492	48,446	- - -
Streptococcal sore throat & scarlet fever	5,136	8,594	8,594	431,667	435,136	422,918
Tetanus	8	3	5	174	163	233
Tularemia	6	3	9	148	175	192
Typhoid fever	6	7	7	347	408	408
Typhus, tick-borne (Rky. Mt. spotted fever)	–	2	2	450	279	262
Rabies in animals	47	51	60	3,335	3,363	4,172

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	4	Rabies in man:	1
Botulism:	14	Rubella congenital syndrome: Colo.-1	17
Leptospirosis: Calif.-1	92	Trichinosis:	175
Plague:	5	Typhus, murine:	49
Psittacosis: Calif.-1	50		

BOTULISM – *(Continued from front page)*

hypotension secondary to hemorrhage (the patient was on anticoagulants), which led to ventricular fibrillation. He was successfully defibrillated; however, he remained unresponsive to external stimuli and expired on Jan. 1, 1970.

Pretreatment serum obtained 24 hours after onset of symptoms was analyzed for *Clostridium botulinum* toxin by mouse bioassay and was positive for type B toxin. Several jars of peppers and juices were tested. No toxicity was detected.

(Reported by C. S. Mollohan, M.D., Chief, Section of Epidemiology, Colorado State Department of Public Health; Anaerobic Bacteriology Laboratory, Bacterial Reference Unit, Bacteriology Section, Microbiology Branch, Laboratory Division, NCDC; and an EIS Officer.)

Editorial Comment:

This is the ninth outbreak of botulism reported to the NCDC in 1969; to date, 15 cases (five fatal) have been reported. Although toxin could not be demonstrated in the vehicles tested in this outbreak, the clinical history and laboratory analysis of the patient's serum confirmed the diagnosis of botulism type B. Since 1899 *(1,2)*, a total of 11 outbreaks of known toxin type have been ascribed to chili peppers. Of these, eight were due to type A toxin – 36 cases (22 fatal) – and three to type B – 10 cases (three fatal).

Since 1899, Colorado has reported 45 outbreaks. Type A botulinum toxin was the causative agent in 12 outbreaks and type B in one; there were no outbreaks with type E.

References:

(1) Meyer, K. F., and Eddie, B.: Sixty-five Years of Human Botulism in the United States and Canada: Epidemiology and Tabulations of Reported Cases 1899 through 1964. George Williams Hooper Foundation, University of California, San Francisco Medical Center, June 1965.

(2) National Communicable Disease Center: Botulism in the United States: Review of Cases 1899-1967 and Handbook for Epidemiologists, Clinicians, and Laboratory Workers.

INFLUENZA – Alaska

The influenza outbreaks which began during the last week in November in the Northern and South Central regions of Alaska are now on the wane. Absenteeism is returning to normal in the cities involved, and no new outbreaks have been reported from these areas. Several studies in the populations involved, including serologic surveys, vaccine protection studies, and virus shedding studies are in progress.

Information received for the week ending Jan. 3, 1970, indicates that outbreaks of influenza-like illness are just beginning to be noted in the Southeastern region in Juneau and Sitka.

(Reported by Donald K. Freedman, M.D., Division of Public Health, Alaska Department of Health and Welfare; Ecological Investigations Program, Alaska Activities, Arctic Health Research Center.)

THE 53rd ISSUE

Vol. 18 for 1969 includes data for the week ending January 3, 1970. This anomaly occurs because the number of days in a calendar year is not an integral multiple of seven. Whenever the period of time between the last Saturday in a given calendar year and the first day of the new year is 4 or more days, it is necessary to add the 53rd week and issue. The Annual Supplement on Reported Incidence of Notifiable Diseases in 1969 will be published in early fall 1970 and will be the 54th issue of Vol. 18.

INTERNATIONAL NOTES
SMALLPOX – West and Central Africa

For the first 11 months of 1969, 482 cases of smallpox were reported from the 20 countries of West and Central Africa participating in the U.S.-assisted Smallpox Eradication Measles Control Program *(1)*. This represents a 91 percent reduction from the 5,203 cases reported during the comparable period in 1968.

Since August, two outbreaks of smallpox, both in Dahomey occurred in West and Central Africa. The first outbreak with 21 cases (five fatal) occurred in Athieme, Dahomey (MMWR, Vol. 18, No. 37). Laboratory specimens were submitted on 17 of the 21 cases. Smallpox was confirmed in 13 cases, was doubtful in one case, and was negative in three cases. Control efforts stopped the outbreak within two incubation periods (28 days) after the report of the index case in early August.

The second reported outbreak occurred in Central Dahomey. In August, a 5-year-old girl was variolated (inoculated with smallpox virus) by a smallpox fetisher, developed smallpox, and subsequently infected two family contacts. A third generation of three cases developed in the family in September and the first week in October.

No smallpox cases have been reported from Dahomey or in the total 20-country program area since that time (Figure 1).

(Reported by the Smallpox Eradication Program, NCDC, and the World Health Organization.)

Reference

(1) World Health Organization Weekly Epidemiological Record, 44 (51/52):670, Dec. 23, 1969.

Figure 1
REPORTED SMALLPOX CASES BY MONTH, 1960-67 AVERAGE, 1968 AND 1969
WEST AND CENTRAL AFRICA

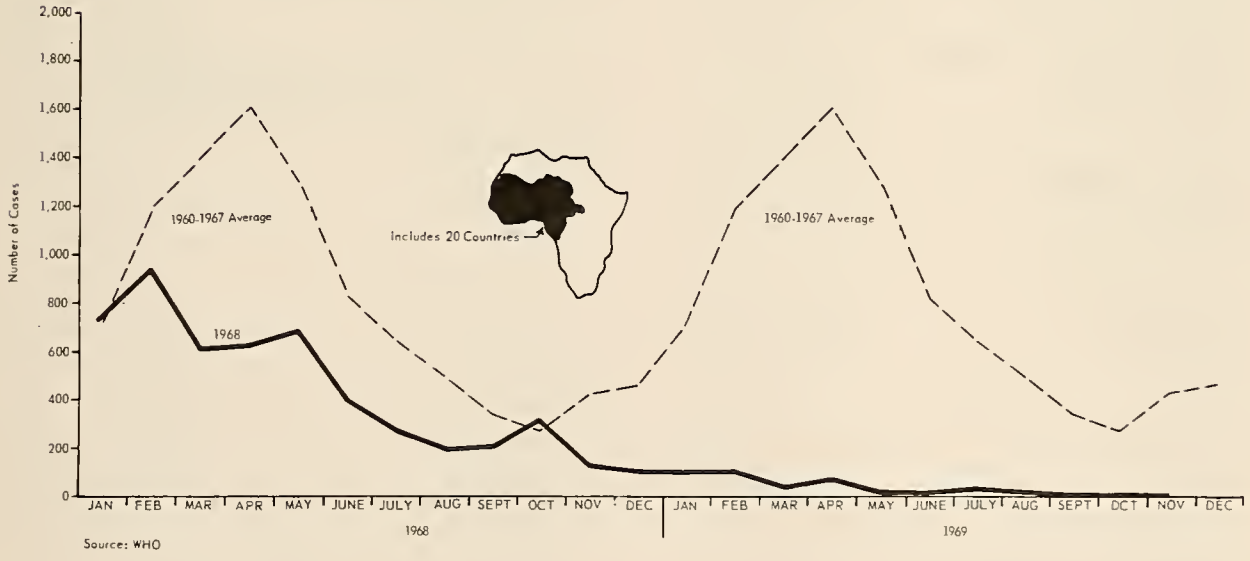

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 3, 1970 AND DECEMBER 28, 1968 (53rd WEEK)

AREA	ASEPTIC MENINGITIS	BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post-Infectious	Serum	Infectious			
	1969	1969	1969	1969	1968	1969	1969	1969	1968	1969	Cum. 1969
UNITED STATES...	35	1	1	14	23	2	53	643	685	48	3,264
NEW ENGLAND.....	3	–	–	1	2	–	6	77	33	3	106
Maine.....	–	–	–	–	–	–	–	9	6	–	8
New Hampshire*.....	–	–	–	–	1	–	–	1	1	–	2
Vermont.....	–	–	–	–	–	–	–	4	–	–	–
Massachusetts.....	1	–	–	–	–	–	1	32	8	2	62
Rhode Island.....	2	–	–	1	–	–	–	20	8	–	11
Connecticut.....	–	–	–	–	1	–	5	11	10	1	23
MIDDLE ATLANTIC.....	13	–	–	2	2	–	18	64	114	4	398
New York City.....	3	–	–	1	1	–	4	9	55	2	30
New York, up-State*	–	–	–	–	–	–	–	–	15	–	85
New Jersey.....	9	–	–	–	1	–	8	15	8	–	158
Pennsylvania.....	1	–	–	1	–	–	6	40	36	2	125
EAST NORTH CENTRAL...	1	–	–	5	10	–	6	110	98	3	333
Ohio.....	–	–	–	3	4	–	–	35	20	–	33
Indiana.....	–	–	–	–	–	–	–	–	7	–	28
Illinois.....	–	–	–	1	1	–	1	35	18	3	201
Michigan.....	1	–	–	1	4	–	5	35	46	–	70
Wisconsin.....	–	–	–	–	1	–	–	5	7	–	1
WEST NORTH CENTRAL...	2	1	–	2	1	1	–	23	42	4	236
Minnesota.....	1	–	–	–	–	1	–	3	14	–	14
Iowa.....	1	–	–	2	–	–	–	5	7	–	28
Missouri.....	–	–	–	–	1	–	–	9	13	–	45
North Dakota.....	–	–	–	–	–	–	–	3	–	–	4
South Dakota.....	–	–	–	–	–	–	–	–	–	–	2
Nebraska.....	–	–	–	–	–	–	–	1	–	–	6
Kansas.....	–	1	–	–	–	–	–	2	8	4	137
SOUTH ATLANTIC.....	2	–	–	–	3	–	3	48	77	9	820
Delaware.....	–	–	–	–	–	–	–	–	1	–	5
Maryland*.....	–	–	–	–	–	–	–	10	14	1	43
Dist. of Columbia..	–	–	–	–	1	–	–	1	4	–	2
Virginia.....	–	–	–	–	2	–	–	4	7	–	28
West Virginia.....	–	–	–	–	–	–	–	2	2	–	4
North Carolina.....	1	–	–	–	–	–	–	16	6	8	340
South Carolina.....	–	–	–	–	–	–	–	4	3	–	65
Georgia.....	–	–	–	–	–	–	–	–	6	–	280
Florida.....	1	–	–	–	–	–	3	11	34	–	53
EAST SOUTH CENTRAL...	–	–	–	–	–	–	–	55	20	1	199
Kentucky.....	–	–	–	–	–	–	–	17	11	–	169
Tennessee.....	–	–	–	–	–	–	–	27	1	–	–
Alabama.....	–	–	–	–	–	–	–	6	7	1	26
Mississippi.....	–	–	–	–	–	–	–	5	1	–	4
WEST SOUTH CENTRAL...	2	–	–	1	–	–	5	67	43	12	301
Arkansas.....	–	–	–	–	–	–	–	1	–	–	13
Louisiana.....	–	–	–	–	–	–	–	12	6	1	47
Oklahoma.....	–	–	–	1	–	–	–	10	8	1	82
Texas.....	2	–	–	–	–	–	5	44	29	10	159
MOUNTAIN.....	–	–	–	–	4	–	2	38	18	–	138
Montana.....	–	–	–	–	3	–	–	–	9	–	3
Idaho.....	–	–	–	–	–	–	–	–	–	–	5
Wyoming.....	–	–	–	–	–	–	1	6	–	–	–
Colorado.....	–	–	–	–	–	–	1	6	–	–	112
New Mexico.....	–	–	–	–	–	–	–	7	2	–	9
Arizona.....	–	–	–	–	1	–	–	13	4	–	1
Utah.....	–	–	–	–	–	–	–	6	3	–	1
Nevada.....	–	–	–	–	–	–	–	–	–	–	7
PACIFIC.....	12	–	1	3	1	1	13	161	240	12	733
Washington.....	–	–	1	–	–	–	–	14	13	–	7
Oregon.....	1	–	–	–	–	–	–	14	10	3	22
California.....	11	–	–	3	1	1	12	127	202	8	568
Alaska.....	–	–	–	–	–	–	–	2	12	–	4
Hawaii.....	–	–	–	–	–	–	1	4	3	1	132
Puerto Rico.*.....	–	–	–	–	–	–	–	12	17	–	4

*Delayed reports: Encephalitis, primary: Md. 1
Hepatitis, infectious: N.H. 1, N.Y. Ups. 27, P.R. 13

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 3, 1970 AND DECEMBER 28, 1968 (53rd WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINCOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
		Cumulative			Cumulative			Total	Paralytic		
	1969	1969	1968	1969	1969	1968	1969	1969	1969	Cum. 1969	1969
UNITED STATES...	627	25,271	22,617	43	2,966	2,521	1,124	–	–	16	318
NEW ENGLAND.....	6	1,218	1,379	2	116	139	144	–	–	2	24
Maine.....	–	10	38	–	8	6	9	–	–	1	4
New Hampshire.....	–	248	150	–	5	8	3	–	–	–	–
Vermont.....	–	3	4	–	–	1	3	–	–	–	–
Massachusetts.....	6	273	386	1	45	74	32	–	–	–	5
Rhode Island.....	–	27	94	–	15	9	28	–	–	–	6
Connecticut.....	–	657	707	1	43	41	69	–	–	1	9
MIDDLE ATLANTIC.....	73	8,123	4,743	7	487	443	89	–	–	2	23
New York City.....	7	5,046	2,433	1	90	90	50	–	–	–	11
New York, Up-State*	–	634	1,388	–	98	75	NN	–	–	1	–
New Jersey*.....	14	1,139	721	6	192	156	39	–	–	–	2
Pennsylvania.....	52	1,304	201	–	107	122	NN	–	–	1	10
EAST NORTH CENTRAL...	304	3,592	4,261	5	401	318	273	–	–	1	91
Ohio.*.....	11	579	333	3	143	85	16	–	–	–	37
Indiana.....	–	501	746	–	53	45	9	–	–	–	3
Illinois.....	275	1,404	1,445	1	58	72	52	–	–	1	7
Michigan.....	4	406	353	–	118	91	60	–	–	–	14
Wisconsin.....	14	702	1,384	1	29	25	136	–	–	–	30
WEST NORTH CENTRAL...	1	1,261	488	4	146	143	31	–	–	1	22
Minnesota.....	–	11	19	–	29	32	1	–	–	–	–
Iowa.*.....	–	360	165	4	25	14	17	–	–	–	9
Missouri.....	–	32	81	–	57	50	–	–	–	–	–
North Dakota.....	1	82	142	–	2	4	–	–	–	–	3
South Dakota.....	–	51	4	–	1	5	NN	–	–	–	–
Nebraska.....	–	716	67	–	14	9	1	–	–	–	2
Kansas.....	–	9	10	–	18	29	12	–	–	1	8
SOUTH ATLANTIC.....	115	3,157	1,862	7	517	505	118	–	–	1	26
Delaware.....	35	557	23	–	17	12	4	–	–	–	1
Maryland.....	24	124	104	–	43	44	13	–	–	–	–
Dist. of Columbia*.	–	58	6	–	9	20	2	–	–	–	2
Virginia.....	7	1,018	460	–	60	50	17	–	–	–	6
West Virginia.....	2	228	337	1	26	14	48	–	–	–	4
North Carolina.....	40	413	322	1	101	99	NN	–	–	–	1
South Carolina.....	6	140	31	2	71	63	11	–	–	–	1
Georgia.....	–	2	4	–	78	98	–	–	–	–	–
Florida.....	1	617	575	3	112	105	23	–	–	1	11
EAST SOUTH CENTRAL...	4	136	508	2	213	222	111	–	–	1	10
Kentucky.....	–	75	107	–	85	98	3	–	–	–	1
Tennessee.....	4	25	65	–	77	70	107	–	–	–	9
Alabama.....	–	12	95	2	30	29	1	–	–	1	–
Mississippi.....	–	24	241	–	21	25	–	–	–	–	–
WEST SOUTH CENTRAL...	98	5,325	5,381	10	397	365	105	–	–	6	52
Arkansas.....	–	16	2	–	34	22	–	–	–	–	–
Louisiana*.....	–	125	27	5	110	104	–	–	–	–	–
Oklahoma.....	–	143	132	–	36	57	2	–	–	–	1
Texas.....	98	5,041	5,220	5	217	182	103	–	–	6	51
MOUNTAIN.....	21	1,203	1,100	–	59	46	81	–	–	1	21
Montana.....	–	122	58	–	8	7	17	–	–	1	1
Idaho.....	–	90	21	–	13	12	20	–	–	–	1
Wyoming.....	–	–	55	–	–	3	–	–	–	–	5
Colorado.....	–	142	526	–	13	14	13	–	–	–	13
New Mexico.....	3	293	176	–	8	1	9	–	–	–	1
Arizona.....	18	544	235	–	10	5	12	–	–	–	–
Utah.....	–	11	21	–	5	1	10	–	–	–	–
Nevada.....	–	1	8	–	2	3	–	–	–	–	–
PACIFIC.....	5	1,256	2,895	6	630	340	172	–	–	1	49
Washington.....	–	69	607	1	62	52	5	–	–	–	4
Oregon.....	–	201	594	1	26	26	22	–	–	–	11
California.....	5	920	1,648	4	521	244	87	–	–	1	17
Alaska.....	–	14	11	–	11	4	24	–	–	–	13
Hawaii.....	–	52	35	–	10	14	34	–	–	–	4
Puerto Rico.*.....	41	2,188	524	–	20	21	5	–	–	–	–

*Delayed reports: Measles: N.Y. Ups. 1, N.J. delete 1, Iowa 22, D.C. 23, P.R. 16
Meningococcal infections: N.Y. Ups. 1, P.R. 1
Mumps: P.R. 17
Rubella: N.Y. Ups. 7, Ohio 1, La. delete 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 3, 1970 AND DECEMBER 28, 1968 (53rd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969
UNITED STATES...	5,136	8	174	6	148	6	347	–	450	47	3,335
NEW ENGLAND.....	820	–	1	–	16	–	16	–	1	3	60
Maine.....	–	–	–	–	–	–	1	–	–	–	6
New Hampshire.....	–	–	–	–	–	–	–	–	–	–	5
Vermont.....	26	–	–	–	16	–	–	–	–	3	38
Massachusetts.....	–	–	1	–	–	–	8	–	1	–	3
Rhode Island.....	66	–	–	–	–	–	1	–	–	–	–
Connecticut.....	728	–	–	–	–	–	6	–	–	–	8
MIDDLE ATLANTIC.....	66	6	30	–	5	–	33	–	47	5	261
New York City.....	–	6	20	–	1	–	17	–	–	–	–
New York, Up-State*	–	–	3	–	4	–	6	–	7	5	247
New Jersey.....	NN	–	4	–	–	–	4	–	15	–	–
Pennsylvania.....	66	–	3	–	–	–	6	–	25	–	14
EAST NORTH CENTRAL...	399	–	19	3	21	–	37	–	3	1	234
Ohio.....	63	–	4	2	2	–	13	–	–	–	76
Indiana.....	–	–	–	–	6	–	–	–	–	–	56
Illinois.....	109	–	10	1	6	–	17	–	3	–	40
Michigan.....	148	–	5	–	–	–	6	–	–	1	11
Wisconsin.....	79	–	–	–	7	–	1	–	–	–	51
WEST NORTH CENTRAL...	297	–	14	–	14	–	10	–	8	12	636
Minnesota.....	–	–	6	–	–	–	4	–	–	5	171
Iowa.....	70	–	–	–	–	–	1	–	7	2	105
Missouri.....	2	–	4	–	10	–	3	–	–	4	153
North Dakota.....	150	–	–	–	–	–	–	–	–	1	78
South Dakota.....	10	–	–	–	–	–	–	–	1	–	43
Nebraska.....	6	–	–	–	1	–	1	–	–	–	14
Kansas.....	59	–	4	–	3	–	1	–	–	–	72
SOUTH ATLANTIC.....	505	–	31	–	23	–	52	–	253	18	803
Delaware.....	15	–	–	–	1	–	2	–	3	–	–
Maryland.....	–	–	2	–	–	–	4	–	48	–	3
Dist. of Columbia..	–	–	2	–	–	–	3	–	–	–	–
Virginia.....	355	–	2	–	4	–	1	–	81	6	381
West Virginia.....	126	–	1	–	2	–	2	–	5	6	120
North Carolina.....	NN	–	3	–	6	–	13	–	67	–	5
South Carolina.....	–	–	1	–	2	–	1	–	32	–	–
Georgia.....	9	–	8	–	4	–	11	–	16	6	117
Florida.....	–	–	12	–	4	–	15	–	1	–	177
EAST SOUTH CENTRAL...	1,409	–	26	2	17	1	54	–	65	2	400
Kentucky.....	128	–	8	–	–	–	12	–	13	1	207
Tennessee.....	1,163	–	4	2	16	1	24	–	43	–	131
Alabama.....	–	–	8	–	–	–	4	–	6	1	56
Mississippi.....	118	–	6	–	1	–	14	–	3	–	6
WEST SOUTH CENTRAL...	27	1	31	–	26	1	39	–	51	5	480
Arkansas.....	16	–	2	–	5	1	16	–	7	2	38
Louisiana.....	5	1	8	–	6	–	4	–	–	–	42
Oklahoma.....	6	–	1	–	9	–	–	–	32	–	75
Texas.....	–	–	20	–	6	–	19	–	12	3	325
MOUNTAIN.....	1,450	–	7	1	20	–	32	–	17	–	124
Montana.....	69	–	1	–	–	–	3	–	–	–	–
Idaho.....	281	–	–	1	1	–	4	–	6	–	–
Wyoming*.....	–	–	–	–	4	–	5	–	–	–	56
Colorado.....	735	–	2	–	–	–	3	–	9	–	3
New Mexico.....	184	–	–	–	1	–	10	–	–	–	22
Arizona.....	51	–	4	–	–	–	6	–	–	–	22
Utah.....	130	–	–	–	14	–	–	–	2	–	5
Nevada.....	–	–	–	–	–	–	1	–	–	–	16
PACIFIC.....	163	1	15	–	6	4	74	–	5	1	337
Washington.....	137	–	1	–	2	–	3	–	3	–	4
Oregon.....	–	–	1	–	2	–	6	–	–	–	4
California.....	---	–	12	–	2	4	55	–	2	1	329
Alaska.....	–	–	–	–	–	–	–	–	–	–	–
Hawaii.....	26	1	1	–	–	–	10	–	–	–	–
Puerto Rico.....	–	1	14	–	–	–	9	–	–	1	30

*Delayed reports: SST: N.Y. Ups. 259, Wyo. 1
Rabies in animals: N.Y. Ups. 2

Week No. 53

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JANUARY 3, 1970

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	855	527	70	40
Boston, Mass.	242	144	21	11
Bridgeport, Conn.	53	33	7	2
Cambridge, Mass.	24	19	8	–
Fall River, Mass.	32	24	–	5
Hartford, Conn.	86	39	5	3
Lowell, Mass.	33	23	3	2
Lynn, Mass.	32	21	1	1
New Bedford, Mass.	41	30	2	–
New Haven, Conn.	57	34	–	5
Providence, R. I.	65	29	8	5
Somerville, Mass.	12	8	2	–
Springfield, Mass.	56	34	7	1
Waterbury, Conn.	47	36	–	1
Worcester, Mass.	75	53	6	4
MIDDLE ATLANTIC:	3,737	2,235	195	144
Albany, N. Y.	55	37	4	1
Allentown, Pa.	43	31	4	1
Buffalo, N. Y.	122	70	8	7
Camden, N. J.	45	19	4	6
Elizabeth, N. J.	42	25	4	1
Erie, Pa.	52	30	2	2
Jersey City, N. J.	90	55	12	5
Newark, N. J.	83	47	5	4
New York City, N. Y.	1,994	1,189	101	79
Paterson, N. J.	40	21	1	2
Philadelphia, Pa.	426	244	10	14
Pittsburgh, Pa.	201	114	13	11
Reading, Pa.	66	42	6	2
Rochester, N. Y.	137	86	3	4
Schenectady, N. Y.	40	28	–	1
Scranton, Pa.	47	29	3	–
Syracuse, N. Y.	119	82	3	2
Trenton, N. J.	58	28	2	–
Utica, N. Y.	33	26	4	–
Yonkers, N. Y.	44	32	6	2
EAST NORTH CENTRAL:	2,879	1,672	112	153
Akron, Ohio	87	56	–	5
Canton, Ohio	51	34	4	1
Chicago, Ill.	861	490	31	43
Cincinnati, Ohio	184	110	7	6
Cleveland, Ohio	236	124	1	21
Columbus, Ohio	142	83	–	4
Dayton, Ohio	80	44	2	5
Detroit, Mich.	370	207	16	25
Evansville, Ind.	39	29	–	1
Flint, Mich.	47	30	–	1
Fort Wayne, Ind.	35	23	4	3
Gary, Ind.	44	13	4	4
Grand Rapids, Mich.	56	43	11	2
Indianapolis, Ind.	151	86	6	7
Madison, Wis.	28	15	2	7
Milwaukee, Wis.	118	73	3	3
Peoria, Ill.	44	24	–	2
Rockford, Ill.	55	34	5	3
South Bend, Ind.	59	43	8	4
Toledo, Ohio	126	71	8	6
Youngstown, Ohio	66	40	–	–
WEST NORTH CENTRAL:	922	570	27	41
Des Moines, Iowa	45	30	1	5
Duluth, Minn.	23	13	2	1
Kansas City, Kans.	33	16	1	–
Kansas City, Mo.	188	107	1	8
Lincoln, Nebr.	42	31	1	–
Minneapolis, Minn.	127	95	2	5
Omaha, Nebr.	50	33	1	2
St. Louis, Mo.	258	155	7	7
St. Paul, Minn.	106	68	5	5
Wichita, Kans.	50	22	6	8
Las Vegas, Nev.*	14	7	1	1
SOUTH ATLANTIC:	1,427	793	64	46
Atlanta, Ga.	116	46	5	8
Baltimore, Md.	285	158	4	5
Charlotte, N. C.	68	35	4	7
Jacksonville, Fla.	103	55	1	5
Miami, Fla.	136	84	2	–
Norfolk, Va.	72	37	8	3
Richmond, Va.	109	64	7	3
Savannah, Ga.	33	17	3	–
St. Petersburg, Fla.	113	93	5	1
Tampa, Fla.	90	43	8	4
Washington, D. C.	236	129	13	7
Wilmington, Del.	66	32	4	3
EAST SOUTH CENTRAL:	645	376	30	21
Birmingham, Ala.	88	52	1	3
Chattanooga, Tenn.	61	34	3	3
Knoxville, Tenn.	51	31	2	1
Louisville, Ky.	104	59	14	5
Memphis, Tenn.	159	95	6	2
Mobile, Ala.	40	25	–	–
Montgomery, Ala.	37	21	1	2
Nashville, Tenn.	105	59	3	5
WEST SOUTH CENTRAL:	1,106	594	40	66
Austin, Tex.	17	9	2	2
Baton Rouge, La.	47	22	2	1
Corpus Christi, Tex.	39	20	2	–
Dallas, Tex.	164	85	4	11
El Paso, Tex.	51	22	4	11
Fort Worth, Tex.	94	57	7	9
Houston, Tex.	162	85	2	1
Little Rock, Ark.	57	36	2	5
New Orleans, La.	178	97	7	4
Oklahoma City, Okla.	108	60	2	7
San Antonio, Tex.	111	59	1	10
Shreveport, La.	49	28	3	2
Tulsa, Okla.	29	14	2	3
MOUNTAIN:	489	272	24	16
Albuquerque, N. Mex.	66	23	9	3
Colorado Springs, Colo.	25	18	1	–
Denver, Colo.	128	78	4	3
Ogden, Utah	15	7	1	1
Phoenix, Ariz.	121	66	–	4
Pueblo, Colo.	19	12	2	1
Salt Lake City, Utah	55	34	4	3
Tucson, Ariz.	60	34	3	1
PACIFIC:	1,627	975	55	57
Berkeley, Calif.	24	14	–	–
Fresno, Calif.	66	38	1	1
Glendale, Calif.	29	18	1	–
Honolulu, Hawaii	50	34	1	2
Long Beach, Calif.	157	88	3	6
Los Angeles, Calif.	428	251	20	22
Oakland, Calif.	72	46	–	4
Pasadena, Calif.	32	19	2	–
Portland, Oreg.	100	60	7	6
Sacramento, Calif.	50	33	4	–
San Diego, Calif.	112	69	2	3
San Francisco, Calif.	189	128	4	3
San Jose, Calif.	58	35	3	2
Seattle, Wash.	165	90	4	5
Spokane, Wash.	56	30	2	1
Tacoma, Wash.	39	22	1	2
Total	13,687	8,014	617	584
Expected Number	13,304	7,780	508	546
Cumulative Total (includes reported corrections for previous weeks)	685,771	392,582	30,322	32,497

*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.

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